

WHAT IS CLAIMED IS:

1. A double throw switch linkage for coupling two switch apparatus together in an enclosure, with each switch apparatus coupled to a switch mechanism having a switch mechanism lever arm, the double throw switch linkage comprising:

an actuator plate slidably mounted to a sidewall of the enclosure with
5 fasteners through a plurality of actuator plate slots defined in the actuator plate, with the actuator plate also defining a first switch slot, a second switch slot and a driver arm slot, with each switch slot configured to guide a pin mounted on each switch mechanism lever arm; and

a lever arm assembly mounted on a side wall of the enclosure, with the
10 lever arm assembly including a lever arm coupled to a driver arm, with the driver arm configured to engage the driver arm slot in the actuator plate,

wherein movement of the lever arm translates a force to the actuator plate which closes one switch apparatus and maintains the other switch apparatus in an open position.

15 2. The double throw switch linkage of claim 6, including an interlock release mechanism configured to release a cover of the enclosure if one of the switch apparatus is closed.

3. The double throw switch linkage of claim 7, wherein the interlock release mechanism includes an interlock bar coupled to each of the switch apparatus.

20 4. The double throw switch linkage of claim 6, wherein the actuator plate is composed of two members coupled together with the lever arm assembly.

5. The double throw switch linkage of claim 6, wherein the actuator plate is composed of a material selected from a group including a metal, a plastic, a composite material, and any two of such materials.

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6. An electric double switch comprising:
an enclosure having at least one sidewall, a bottom wall and a cover;
a first switch apparatus, including a first switch mechanism having a
lever arm, mounted in the enclosure;

5 a second switch apparatus, , including a second switch mechanism
having a lever arm, mounted in the enclosure; and
a double throw switch linkage coupled to each of the first and second
switch apparatus,

the double throw switch linkage comprising:
10 an actuator plate slidably mounted to the sidewall of the enclosure
with fasteners through a plurality of actuator plate slots defined in the actuator plate,
with the actuator plate also defining a first switch slot, a second switch slot and a
driver arm slot, with each switch slot configured to guide a pin mounted on each
switch mechanism lever arm; and

15 a lever arm assembly mounted on a side wall of the enclosure, with the
lever arm assembly including a lever arm coupled to a driver arm, with the driver arm
configured to engage the driver arm slot in the actuator plate,

wherein movement of the lever arm translates a force to the actuator
plate which closes one switch apparatus and maintains the other switch apparatus in
20 an open position.

7. The double throw switch linkage of claim 16, including an interlock
release mechanism configured to release a cover of the enclosure if one of the switch
apparatus is closed.

8. The double throw switch linkage of claim 17, wherein the interlock
25 release mechanism includes an interlock bar coupled to each of the switch apparatus.

9. The double throw switch linkage of claim 16, wherein the actuator
plate is composed of two members coupled together with the lever arm assembly.

10. The double throw switch linkage of claim 16, wherein the actuator plate is composed of a material selected from a group including a metal, a plastic, a composite material, and any two of such materials.

11. A method for interlocking two switch apparatus mounted in an enclosure, with each switch apparatus having a switch mechanism including a switch mechanism lever arm and the enclosure having a cover and a sidewall, the method comprising the steps of:

providing an actuator plate, with the actuator plate defining a first switch slot, a second switch slot and a driver arm slot, with each switch slot configured to guide a pin mounted on each switch mechanism lever arm;

mounting the actuator plate, for sliding movement, on the sidewall of the enclosure;

aligning the pin on each switch mechanism lever arm in one of the first and second switch slots in the actuator plate;

mounting a lever arm assembly on the sidewall of the enclosure, with the lever arm assembly including a lever arm coupled to a driver arm;

aligning the driver arm to engage the driver arm slot in the actuator plate; and

moving the lever arm to translate a force to the actuator plate wherein one switch apparatus is closed and the other switch apparatus is maintained in an open position.

12. The method of claim 11, including the steps of providing an interlock release mechanism coupled to the cover and each of the switch apparatus, wherein the cover can be opened if one of the switch apparatuses is closed.

13. The method of claim 11, wherein the actuator plate is composed of a material selected from a group including a metal, a plastic, a composite material, and any two of such materials.

14. The method of claim 11, wherein the actuator plate is composed of two members and includes the step of coupling the two actuator plate members together with the lever arm assembly.